

Day: Thursday Date: 3/29/2007

Time: 11:20:44

Inventor Name Search Result

Your Search was:

Last Name = UDESHI First Name = TUSHAR

| Application# | Patent# | Status | Date Filed | Title | Inventor Name |
|--------------|----------------|--------|------------|---|-------------------|
| 10698178 | Not Issued | 71 | | System and method for processing a hierarchical data tree | UDESHI, TUSHAR |
| 10749256 | Not Issued | 61 | | Isosurface extraction into splat hierarchy | UDESHI, TUSHAR |
| 60525425 | Not Issued | 159 | J I | Generation of tetrahedral mesh from voxel data | UDESHI, TUSHAR |
| 10080984 | <u>6816170</u> | 150 | | SYSTEM AND METHOD FOR ROBUST AND EFFICIENT RESIZING OF SIMPLE POLYGONS | UDESHI, TUSHAR J. |

Inventor Search Completed: No Records to Display.

| Search Another: Inventor | Last Name | First Name | |
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Inventor Name Search Result

Your Search was:

Last Name = PARKER First Name = ERIC

| Application# | Patent# | Status | Date Filed | Title | Inventor Name |
|--------------|---------------|--------|------------|---|-----------------|
| 07181749 | 4802807 | 150 | 04/14/1988 | THREADED FASTENER | PARKER, ERIC |
| 08565003 | 5629826 | 150 | I I | RETRACTABLE CORD SURGE PROTECTOR | PARKER, ERIC |
| 09153276 | 6189662 | 150 | 09/14/1998 | ADJUSTABLE DAMPER | PARKER, ERIC |
| 09160168 | 5992307 | 150 | 09/25/1998 | PORTABLE OUTDOOR STEAMER SYSTEM | PARKER, ERIC |
| 09328134 | 6269919 | 150 | 06/08/1999 | PLASTIC STRAND DAMPER | PARKER, ERIC |
| 09496530 | Not Issued | 160 | 02/02/2000 | Financial modeling in a modular system and method for processing transactions | PARKER, ERIC |
| 09496903 | Not Issued | 160 | 02/02/2000 | Modular system and method for processing transactions | PARKER, ERIC |
| 09595306 | 6540251 | 150 | 06/16/2000 | SIDE AIRBAG RETENTION SYSTEM AND FASTENER | PARKER, ERIC |
| 10001272 | 6539990 | 150 | 11/20/2001 | CAPLESS REFUELING ASSEMBLY | PARKER, ERIC |
| 10698178 | Not Issued | 71 | 10/31/2003 | System and method for processing a hierarchical data tree | PARKER, ERIC |
| 10749256 | Not Issued | 61 | | Isosurface extraction into splat hierarchy | PARKER, ERIC |
| 60193524 | Not Issued | 159 | 03/31/2000 | Side air bag attachment system | PARKER, ERIC |
| 60629603 | Not Issued | 159 | ll : | Shower head with time and temperature display | PARKER, ERIC A. |
| 60867677 | Not Issued | 20 | 11/29/2006 | Method of Preparing Benzoxazines | PARKER, ERIC A. |
| 07188035 | 4881912 | 150 | 04/29/1988 | HIGH VOLTAGE COAXIAL CONNECTOR | PARKER, ERIC B. |
| | | | | | |

| 09569330 | 6510359 | 150 | 05/11/2000 | METHOD AND SYSTEM FOR SELF-REPLICATING MANUFACTURING STATIONS | PARKER, ERIC G |
|----------|----------------|------|------------|---|-----------------|
| 09569329 | 6398280 | 150 | | GRIPPER AND COMPLEMENTARY HANDLE FOR USE WITH MICROCOMPONENTS | PARKER, ERIC G. |
| 09613974 | 6224129 | 150 | 07/11/2000 | Car seat tether anchor and system | PARKER, ERIC G. |
| 09616500 | 6677225 | 150 | 07/14/2000 | SYSTEM AND METHOD FOR CONSTRAINING TOTALLY RELEASED MICROCOMPONENTS | PARKER, ERIC G. |
| 09689094 | 6698963 | 150 | 10/12/2000 | BALL AND SOCKET JOINT AND METHOD THEREFOR | PARKER, ERIC G. |
| 09791514 | 6431195 | 150 | 02/23/2001 | BUOYANT VENT VALVE | PARKER, ERIC G. |
| 09884205 | Not Issued | 93 . | 06/19/2001 | SYSTEM AND METHOD FOR POST-FABRICATION REDUCTION OF MINIMUM FEATURE SIZE SPACING OF MICROCOMPONENTS | PARKER, ERIC G. |
| 10066220 | Not- Issued | 41 | 11/07/2001 | Modular linkage system | PARKER, ERIC G. |
| 10306464 | Not Issued | 41 | 11/27/2002 | Efficient data structure | PARKER, ERIC G. |
| 10647877 | 6939097 | 150 | | GROUND WASHER | PARKER, ERIC G. |
| 10976709 | Not Issued | 30 | 10/29/2004 | Fuel shut-off valve assembly with associated components and methods of making and assembling the same | PARKER, ERIC G. |
| 11490923 | Not Issued | 25 | 07/21/2006 | Method and apparatus for quick recovery of dropped cellular phone calls | PARKER, ERIC G. |
| 11595586 | Not Issued | 20 | 11/09/2006 | Pressure relief assembly | PARKER, ERIC G. |
| 29230413 | D537398 | 150 | 05/20/2005 | FUEL DOOR | PARKER, ERIC G. |
| 60428045 | Not Issued | 159 | 11/21/2002 | Ground washer | PARKER, ERIC G. |
| 60528037 | Not Issued | 159 | 12/09/2003 | Fuel shutoff valve | PARKER, ERIC G. |
| 60557182 | Not | 159 | 03/29/2004 | Seal for fuel shutoff valve | PARKER, ERIC G. |

| | Issued | | | | |
|----------|---------------|-----|------------|---|-----------------|
| 60582380 | Not Issued | 159 | 06/23/2004 | Fuel shutoff valve and associated components and method of making and assembling the same | PARKER, ERIC G. |
| 60652880 | Not Issued | 159 | 02/15/2005 | Attachment system for fuel pipe assemblies and method of assembly therefor | PARKER, ERIC G. |
| 60694299 | Not Issued | 159 | 06/27/2005 | Variety of cupholders | PARKER, ERIC G. |
| 60763597 | Not Issued | 159 | 01/31/2006 | Pressure relief device | PARKER, ERIC G. |
| 60782365 | Not Issued | 159 | | Locking system for capless refueling system | PARKER, ERIC G. |
| 60816846 | Not Issued | 20 | 06/27/2006 | Liquid level sensor | PARKER, ERIC G. |
| 60843182 | Not Issued | 20 | 09/08/2006 | Maxi-grip airbag sleeve | PARKER, ERIC G. |
| 60855925 | Not Issued | 20 | 11/01/2006 | Maxi-grip airbag sleeve | PARKER, ERIC G. |
| 60903752 | Not Issued | 20 | 02/27/2007 | Control device and system | PARKER, ERIC G. |
| 06712597 | 4600662 | 150 | 03/18/1985 | A FERROUS ARTICLE LAYERED WITH ION VAPOR DEPOSITED NON-OXIDIZED ALUMINUM | PARKER, ERIC G. |
| 06850517 | 4715316 | 150 | 04/11/1986 | APPARATUS FOR PLATING AND COATING | PARKER, ERIC G. |
| 07108957 | 4788078 | 150 | 10/16/1987 | METHOD FOR PLATING AND COATING ARTICLES | PARKER, ERIC G. |
| 07318298 | 4944523 | 150 | 03/03/1989 | END LINK FOR STABILIZER BAR | PARKER, ERIC G. |
| 07554741 | 5076242 | 150 | 07/18/1990 | INTEGRAL FUEL LINE | PARKER, ERIC G. |
| 07688468 | Not Issued | 161 | 04/22/1991 | FASTENER COATING AND PROCESS | PARKER, ERIC G. |
| 07881186 | 5239964 | 150 | 05/11/1992 | CONCENTRIC FUEL LINE SYSTEM | PARKER, ERIC G. |
| 08011327 | 5494754 | 150 | 01/29/1993 | FASTENER COATING AND PROCESS | PARKER, ERIC G. |
| 08098224 | 5449193 | 150 | 07/27/1993 | END LINK FOR A VEHICLE STABILIZER BAR | PARKER, ERIC G. |

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First Name = ERIC

| Application# | Patent# | Status | Date Filed | Title | Inventor Name | | |
|-----------------|---------------|--------|------------|---|-----------------|--|--|
| 08134409 | 5390904 | 250 | 10/08/1993 | ATTENUATED HINGE SPRING ASSEMBLY | PARKER, ERIC G. | | |
| <u>08136336</u> | 5542705 | 150 | 10/14/1993 | DUAL COMPENSATING STABILIZER | PARKER, ERIC G. | | |
| 08136337 | 5382034 | 150 | 10/14/1993 | DUAL COMPENSATING STABILIZER | PARKER, ERIC G. | | |
| 08192447 | Not Issued | 161 | 02/07/1994 | PIVOTAL BALL-END LINK | PARKER, ERIC G. | | |
| 08311479 | 5669695 | 150 | | HEADLAMP ADJUSTMENT MECHANISM | PARKER, ERIC G. | | |
| 08369897 | Not Issued | 161 | 01/09/1995 | METHOD OF MAKING A COMPONENT WHICH IS SUBSTANTIALLY IMPERVIOUS TO HYDROCARBONS AND/OR ELECTRICALLY CONDUCTIVE | PARKER, ERIC G. | | |
| 08550380 | 5690194 | 150 | 10/30/1995 | ONE-WAY PIVOTING GEAR DAMPER | PARKER, ERIC G. | | |
| 08619009 | 5807010 | 150 | 03/21/1996 | PIVOTAL BALL-END LINK | PARKER, ERIC G. | | |
| 08708816 | 5839548 | 150 | 09/09/1996 | MOTION CONTROL DEVICE FOR ROTARY DAMPERS | PARKER, ERIC G. | | |
| 08714248 | 6007154 | 150 | 09/16/1996 | FOUR-WAY ARTICULATING HEADREST SYSTEM FOR AUTOMOTIVE SEATS | PARKER, ERIC G. | | |
| 08798875 | 5836598 | 150 | 02/11/1997 | APPARATUS FOR VEHICLE SUSPENSION STABILIZATION SYSTEM AND METHOD THEREOF | PARKER, ERIC G. | | |
| 08890058 | Not Issued | 168 | 07/09/1997 | PIVOTAL BALL-END LINK | PARKER, ERIC G. | | |
| | | | ll . | | | | |

| 08991215 | 6026554 | 150 | 12/16/1997 | AUTOMOTIVE FUEL FILLER PIPE HOUSING WITH SNAP- OVER TRIM RING | PARKER, ERIC G. |
|----------|---------------|------|------------|---|------------------------|
| 09062519 | 5931206 | 150 | 04/17/1998 | AUTOMOTIVE FUEL FILLER PIPE VALVE ASSEMBLY | PARKER, ERIC G. |
| 09324519 | 6121755 | 150 | 06/03/1999 | OPTICAL-ELECTRONIC BATTERY INDICATOR | PARKER, ERIC G. |
| 09411953 | 6206339 | 150 | | ROTARY FUEL FILLER VALVE ACTUATOR | PARKER, ERIC G. |
| 08944279 | 6259904 | 150 | | FAST SQUELCH CIRCUIT AND METHOD | PARKER, ERIC GEORGE |
| 06689057 | 4632031 | 150 | 12/11/1984 | PROGRAMMABLE ELECTRONIC DELAY FUSE | PARKER, ERIC J. |
| 10154106 | Not Issued | 71 | 05/22/2002 | Methods for treating alzheimer's disease and/or regulating levels of amyloid beta peptides in a subject | PARKER, ERIC MCFEE |
| 10701244 | Not Issued | 30 | 11/04/2003 | Methods and therapeutic combinations for the treatment of demyelination | PARKER, ERIC MCFEE |
| 60293651 | Not Issued | 159 | 05/25/2001 | Methods for treating alzheimer's disease and/or regulating levels of amyloid beta peptides in a mammal | PARKER, ERIC MCFEE |
| 60323911 | Not Issued | 159 | 09/21/2001 | Methods for treating Alzheimer's disease and/or regulating levels of amyloid beta peptides in a mammal | PARKER, ERIC MCFEE |
| 60424165 | Not Issued | 159 | 11/06/2002 | Methods and therapeutic combinations for the treatment of demyelination | PARKER, ERIC MCFEE |
| 09003199 | 5985616 | 150 | 01/07/1998 | CHIMERIC MAMMALIAN NPY Y5 RECEPTORS | PARKER, ERIC MCFEE |
| 11437343 | Not Issued | 25 | 05/19/2006 | System for testing smart cards and method for same | PARKER, ERIC N. |
| 60683376 | Not Issued | 159 | 05/19/2005 | Automated system for flexible and asynchronous testing of smart card devices | |
| 09321906 | 6618712 | 150 | 05/28/1999 | PARTICLE ANALYSIS USING LASER ABLATION MASS SPECTROSCOPY | PARKER, ERIC P. |
| 07871095 | Not Issued | .161 | 04/20/1992 | RAIL PROTECTOR FOR SURFBOARDS OR FOR ANY FLOATING WATER SPORT BOARDS | PARKER, ERIC S. |

| Inventor Search Completed: No Records to D | isplay. |
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1 Advances in software and hardware synthesis techniques for DSP applications:

Efficient mapping of hierarchical trees on coarse-grain reconfigurable architectures F. Rivera, M. Sanchez-Elez, M. Fernandez, R. Hermida, N. Bagherzadeh

September 2004 Proceedings of the 2nd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis CODES+ISSS '04

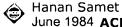
Publisher: ACM Press

Full text available: pdf(316.12 KB) Additional Information: full citation, abstract, references, index terms

Reconfigurable architectures have become increasingly important in recent years. In this paper we present an approach to the problem of executing 3D graphics interactive applications onto these architectures. The hierarchical trees are usually implemented to reduce the data processed, thereby diminishing the execution time. We have developed a mapping scheme that parallelizes the tree execution onto a SIMD reconfigurable architecture. This mapping scheme considerably reduces the time penalty cau ...

Keywords: SIMD, computer graphics, hierarchical trees, multimedia, reconfigurable architectures

The Quadtree and Related Hierarchical Data Structures



June 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 2

Publisher: ACM Press

Full text available: pdf(4.87 MB)

Additional Information: full citation, references, citings, index terms

3 Research sessions: selectivity: Hierarchical subspace sampling: a unified framework for high dimensional data reduction, selectivity estimation and nearest neighbor search



Charu C. Aggarwal

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index terms

With the increased abilities for automated data collection made possible by modern

technology, the typical sizes of data collections have continued to grow in recent years. In such cases, it may be desirable to store the data in a reduced format in order to improve the storage, transfer time, and processing requirements on the data. One of the challenges of designing effective data compression techniques is to be able to preserve the ability to use the reduced format directly for a wide range of ...

4 An automated approach for retrieving hierarchical data from HTML tables Seung-Jin Lim, Yiu-Kai Ng



November 1999 Proceedings of the eighth international conference on Information and knowledge management CIKM '99

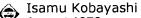
Publisher: ACM Press

Full text available: 包 pdf(1.74 MB)

Additional Information: full citation, abstract, references, citings, index terms

Among the HTML elements, HTML tables [RHJ98] encapsulate hierarchically structured data (hierarchical data in short) in a tabular structure. HTML tables do not come with a rigid schema and almost any forms of two-dimensional tables are acceptable according to the HTML grammar. This relaxation complicates the process of retrieving hierarchical data from HTML tables. In this paper, we propose an automated approach for retrieving hierarchical data from HTML tables. The proposed approach constr ...

5 An algebraic model of information structure and information processing



August 1972 Proceedings of the ACM annual conference - Volume 2 ACM '72

Publisher: ACM Press

Full text available: pdf(1.40 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper intends to clarify logical and physical information structures and essential operations in the data processing on them. Basic terminologies are due to Information Algebra originally proposed by CODASYL Language Structure Group in 1961, however, several new concepts have been introduced to ease the discussion from the software implementation point of view. The paper is included in internal research memorandom titled "Data Base Management Systems - a Theory and a Practice,&rd ...

Keywords: Data base, Data base management, Indexing, Information algebra, Information storage and retrieval, Information structure

6 XML stream processing using tree-edit distance embeddings



Minos Garofalakis, Amit Kumar

March 2005 ACM Transactions on Database Systems (TODS), Volume 30 Issue 1

Publisher: ACM Press

Full text available: pdf(726.56 KB)

Additional Information: full citation, abstract, references, citings, index terms

We propose the first known solution to the problem of correlating, in small space, continuous streams of XML data through approximate (structure and content) matching, as defined by a general tree-edit distance metric. The key element of our solution is a novel algorithm for obliviously embedding tree-edit distance metrics into an L1 vector space while quaranteeing a (worst-case) upper bound of $O(\log^2 n \log ast; n)$ on the distance distortion betwee ...

Keywords: XML, approximate query processing, data streams, data synopses, metricspace embeddings, tree-edit distance

Retrieval operations and data representations in a context-addressed disc system



Stanley Y. W. Su, George P. Copeland, G. Jack Lipovski

November 1973 ACM SIGIR Forum, ACM SIGPLAN Notices, Proceedings of the 1973 meeting on Programming languages and information retrieval **SIGPLAN** '73, Volume 9, 10 Issue 3, 1

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings Full text available: pdf(1.15 MB)

This paper attempts to demonstrate that simple expansion of the processing capabilities of fixed disc read and write heads can avoid the multilevel mappings from high-level retrieval language to machine language and from user oriented data representation (information structure) to machine oriented data representation (storage structure) which are found necessary in conventional von Neumann computers. The processing capabilities built in the disc read and write heads for each disc track allow inf ...

Research sessions: Research 8: XML query processing: Twig²Stack: bottom-up processing of generalized-tree-pattern queries over XML documents Songting Chen, Hua-Gang Li, Junichi Tatemura, Wang-Pin Hsiung, Divyakant Agrawal, K. Selçuk Candan

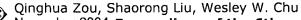
September 2006 Proceedings of the 32nd international conference on Very large data bases - Volume 32 VLDB'2006

Publisher: VLDB Endowment

Full text available: 🛱 pdf(663.04 KB) Additional Information: full citation, abstract, references, index terms

Tree pattern matching is one of the most fundamental tasks for XML query processing. Holistic twig query processing techniques [4, 16] have been developed to minimize the intermediate results, namely, those root-to-leaf path matches that are not in the final twig results. However, useless path matches cannot be completely avoided, especially when there is a parent-child relationship in the twig query. Furthermore, existing approaches do not consider the fact that in practice, in order to process ...

9 XML processing: Ctree: a compact tree for indexing XML data



November 2004 Proceedings of the 6th annual ACM international workshop on Web information and data management WIDM '04

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(272.47 KB) terms

In this paper, we propose a novel compact tree (Ctree) for XML indexing, which provides not only concise path summaries at the group level but also detailed child-parent links at the element level. Group level mapping allows efficient pruning of a large search space while element level mapping provides fast access to the parent of an element. Due to the tree nature of XML data and queries, such fast child-to-parent access is essential for efficient XML query processing. Using group-based elem ...

Keywords: Ctree, XML index, XQuery evaluation, path summary, value index

10 The guad-CIF tree: A data structure for hierarchical on-line algorithms Gershon Kedem

January 1982 Proceedings of the 19th conference on Design automation DAC '82

Publisher: IEEE Press

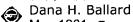
Additional Information: full citation, abstract, references, citings, index Full text available: pdf(441.74 KB) terms

In this paper we describe the quad-CIF tree data structure and its application to



hierarchical on-line computer-aided design algorithms. The main idea is to overlay a tree of coordinates on top of the hierarchical representation of an integrated circuit. The coordinate tree enables one to find quickly the set of all objects that intersect a given window. We outline how one can use the data structure in order to implement hierarchical, on-line design rule checking and node extraction. We als ...

11 Strip trees: a hierarchical representation for curves



May 1981 Communications of the ACM, Volume 24 Issue 5

Publisher: ACM Press

Full text available: 完 pdf(1.02 MB)

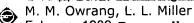
Additional Information: full citation, abstract, references, citings, index

terms

The use of curves to represent two-dimensional structures is an important part of many scientific investigations. For example, geographers use curves extensively to represent map features such as contour lines, roads, and rivers. Circuit layout designers use curves to specify the wiring between circuits. Because of the very large amount of data involved and the need to perform operations on this data efficiently, the representation of such curves is a crucial issue. A hierarchical represent ...

Keywords: boundary line representation, cartography, computer graphics, computersearchable structures, contour representation, geographic information processing, graphic data retrieval, intersection of curves, line-drawing processing, points in polygons, polygons, regional boundary representation, spatial information

12 An approach for integration of data processing in a distributed enviornment



February 1989 Proceedings of the 17th conference on ACM Annual Computer Science **Conference CSC '89**

Publisher: ACM Press

Full text available: pdf(582.89 KB) Additional Information: full citation, abstract, references, index terms

A translation process designed to translate queries between data models in a distributed environment is examined. Such a translation mechanism will enable the user to have access to the database resource in a distributed database for which different data base management systems coexist. The translation process is described and examples illustrating the process are given. The discussion has been limited to operating in the environment where the source and target database have the same semant ...

13 Research articles and surveys: Analytical processing of XML documents:



opportunities and challenges

Rajesh R. Bordawekar, Christian A. Lang

June 2005 ACM SIGMOD Record, Volume 34 Issue 2

Publisher: ACM Press

Full text available: 🛱 pdf(191.42 KB) Additional Information: full citation, abstract, references, index terms

Online Analytical Processing (OLAP) has been a valuable tool for analyzing trends in business information. While the multi-dimensional cube model used by OLAP is ideal for analyzing structured business data, it is not suitable for representing and analyzing complex semi-structured data, such as, XML documents. Need for analyzing XML documents is gaining urgency as XML has become the language of choice for data representation across a wide range of application domains. This paper describes a prop ...

A unifying data structure for hierarchical methods



Faith E. Sevilgen, Srinivas Aluru

January 1999 Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '99

Publisher: ACM Press

Full text available: 常身(88.91 KB) Additional Information: full citation, references, index terms

15 A hierarchical data structure for multidimensional digital images

Mann-May Yau, Sargur N. Srihari

July 1983 Communications of the ACM, Volume 26 Issue 7

Publisher: ACM Press

Full text available: pdf(1.10 MB)

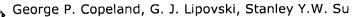
Additional Information: full citation, abstract, references, citings, index

terms

A tree data structure for representing multidimensional digital binary images is described. The method is based on recursive subdivision of the d-dimensional space into 2d hyperoctants. An algorithm for constructing the tree of a d-dimensional binary image from the trees of its (d - 1)-dimensional cross sections is given. The computational advantages of the data structure and the algorithm are demonstrated both theoretically and in application to a three-dimens ...

Keywords: computed tomography, hyperoctree, multidimensional arrays, octree, quadtree, serial section image processing

16 The architecture of CASSM: A cellular system for non-numeric processing



December 1973 ACM SIGARCH Computer Architecture News, Proceedings of the 1st annual symposium on Computer architecture ISCA '73, Volume 2 Issue 4

Publisher: ACM Press

Full text available: pdf(857.69 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents the architecture of a context-addressed cellular system for nonnumeric information processing, using an inexpensive, large-capacity circulating memory device. The system allows data to be represented in a structure very close to the form as the user perceives it (information structure) and allows the search operations of high level queries to be implemented directly. The information structures currently used in existing information systems are described. Then the archit ...

17 Hierarchical Data-Base Management: A Survey



D. C. Tsichritzis, F. H. Lochovsky

March 1976 ACM Computing Surveys (CSUR), Volume 8 Issue 1

Publisher: ACM Press

Full text available: pdf(1.29 MB)

Additional Information: full citation, references, citings, index terms

18 A study of order transformations of hierarchical structures in IMS data bases



J. W. Mehl, C. P. Wang

May 1974 Proceedings of the 1974 ACM SIGFIDET (now SIGMOD) workshop on Data description, access and control FIDET '74

Publisher: ACM Press

Full text available: pdf(667.34 KB)

Additional Information: full citation, abstract, references, citings, index terms

Hierarchical structures are widely used in information processing. An application program written to traverse a hierarchical structure will not work properly, if at all, when the order of the structure (in the sense of tree order) is altered. This paper presents a method in the context of IMS systems to intercept and interpret data base manipulation commands issued by the application program to eliminate the necessity of reprogramming when a hierarchical structure is subject to an order tra ...

19 Dynamic maintenance of multidimensional range data partitioning for parallel data



processing

Junping Sun, William I. Grosky

November 1998 Proceedings of the 1st ACM international workshop on Data warehousing and OLAP DOLAP '98

Publisher: ACM Press

Additional Information: full citation, references, citings, index terms

20 Research track: Classifying large data sets using SVMs with hierarchical clusters



Hwanjo Yu, Jiong Yang, Jiawei Han

August 2003 Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '03

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index terms

Support vector machines (SVMs) have been promising methods for classification and regression analysis because of their solid mathematical foundations which convery several salient properties that other methods hardly provide. However, despite the prominent properties of SVMs, they are not as favored for large-scale data mining as for pattern recognition or machine learning because the training complexity of SVMs is highly dependent on the size of a data set. Many real-world data mining applicati ...

Keywords: hierarchical cluster, support vector machines

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Compression of particle data from hierarchical approximate methods Dow-Yung Yang, Ananth Grama, Vivek Sarin, Naren Ramakrishnan

September 2001 ACM Transactions on Mathematical Software (TOMS), Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(614.22 KB)

Additional Information: full citation, abstract, references, citings, index terms

This article presents an analytical and computational framework for the compression of particle data resulting from hierarchical approximate treecodes such as the Barnes--Hut and Fast Multipole Methods. Due to approximations introduced by hierarchical methods, various parameters (such as position, velocity, acceleration, potential) associated with a particle can be bounded by distortion radii. Using this distortion radii, we develop storage schemes that guarantee error bounds while ...

Keywords: Astrophysics, Barnes--Hut, Fast Multipole Method, data compression and analysis, materials simulation, molecular dynamics, particle dynamics

Implications of hierarchical N-body methods for multiprocessor architectures



Jaswinder Pal Singh, John L. Hennessy, Anoop Gupta

May 1995 ACM Transactions on Computer Systems (TOCS), Volume 13 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index terms, review

To design effective large-scale multiprocessors, designers need to understand the characteristics of the applications that will use the machines. Application characteristics of particular interest include the amount of communication relative to computation, the structure of the communication, and the local cache and memory requirements, as well as how these characteristics scale with larger problems and machines. One important class of applications is based on hierarchical N-body methods, w ...

Keywords: N-body methods, communication abstractions, locality, message passing, parallel applications, parallel computer architecture, scaling, shared address space, shared memory

The Quadtree and Related Hierarchical Data Structures

Hanan Samet

June 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 2

Publisher: ACM Press

Full text available: pdf(4.87 MB)

Additional Information: full citation, references, citings, index terms

4 Research sessions: selectivity: Hierarchical subspace sampling: a unified framework for high dimensional data reduction, selectivity estimation and nearest neighbor

search

Charu C. Aggarwal

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index terms

With the increased abilities for automated data collection made possible by modern technology, the typical sizes of data collections have continued to grow in recent years. In such cases, it may be desirable to store the data in a reduced format in order to improve the storage, transfer time, and processing requirements on the data. One of the challenges of designing effective data compression techniques is to be able to preserve the ability to use the reduced format directly for a wide range of ...

⁵ EXPRESS: a data <u>EXtraction</u>, <u>Processing</u>, and <u>Restructuring System</u>



N. C. Shu, B. C. Housel, R. W. Taylor, S. P. Ghosh, V. Y. Lum

June 1977 ACM Transactions on Database Systems (TODS), Volume 2 Issue 2

Publisher: ACM Press

Full text available: 官 pdf(2.62 MB)

Additional Information: full citation, abstract, references, citings, index terms

EXPRESS is an experimental prototype data translation system which can access a wide variety of data and restructure it for new uses. The system is driven by two very high level nonprocedural languages: DEFINE for data description and CONVERT for data restructuring. Program generation and cooperating process techniques are used to achieve efficient operation. This paper describes the design and implementation of EXPRESS. DEFINE and CONVERT are summarized and the implementation ar ...

Keywords: data conversion, data description languages, data manipulation languages, data restructuring, data translation, file conversion, program generation, very high level languages

6 Hierarchical Data-Base Management: A Survey



D. C. Tsichritzis, F. H. Lochovsky

March 1976 ACM Computing Surveys (CSUR), Volume 8 Issue 1

Publisher: ACM Press

Additional Information: full citation, references, citings, index terms

Bounded-error compression of particle data from hierarchical approximate methods



Dow-Yung Yang, Ananth Grama, Vivek Sarin

January 1999 Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '99

Publisher: ACM Press

Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 3

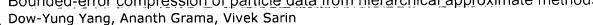
Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(636.24 KB) terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

Bounded-error compression of particle data from hierarchical approximate methods



January 1999 Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '99

Publisher: ACM Press

Full text available: pdf(691.10 KB) Additional Information: full citation, references, citings, index terms

10 External memory algorithms and data structures: dealing with massive data

Jeffrey Scott Vitter

June 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(828.46 KB) terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

11 Parallel matrix-vector product using approximate hierarchical methods

Ananth Grama, Vipin Kumar, Ahmed Sameh December 1995 Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00 Supercomputing '95

Publisher: ACM Press

Full text available: 完 pdf(659.96 KB) Additional Information: full citation, abstract, references, citings, index

(5) html(2.40 KB)

terms

Matrix-vector products (mat-vecs) form the core of iterative methods used for solving dense linear systems. Often, these systems arise in the solution of integral equations used in electromagnetics, heat transfer, and wave propagation. In this paper, we present a parallel approximate method for computing mat-vecs used in the solution of integral equations. We use this method to compute dense mat-vecs of hundreds of thousands of elements. The combined speedups obtained from the use of approximate ...

12 The design and implementation of hierarchical software systems with reusable



components

Don Batory, Sean O'Malley

October 1992 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 1 Issue 4

Publisher: ACM Press

Full text available: pdf(3.15 MB)

Additional Information: full citation, abstract, references, citings, index

terms, review

We present a domain-independent model of hierarchical software system design and construction that is based on interchangeable software components and large-scale reuse. The model unifies the conceptualizations of two independent projects, Genesis and Avoca, that are successful examples of software component/building-block technologies and domain modeling. Building-block technologies exploit large-scale reuse, rely on open architecture software, and elevate the granularity of programming to ...

Keywords: domain modeling, open system architectures, reuse, software buildingblocks, software design

13 Data Warehouse: Dynamic and hierarchical spatial access method using integer



searching

Kyoosang Cho, Yijie Han, Yugyung Lee, E. K. Park

October 2001 Proceedings of the tenth international conference on Information and knowledge management CIKM '01

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms

Dynamic and complex computation in the area of Geographic Information System (GIS) or Mobile Computing System involves huge amount of spatial objects such as points, boxes, polygons, etc and requires a scalable data structure and an efficient management tool for this information. In this paper, for a dynamic management of spatial objects, we construct a hierarchical dynamic data structure, called an IST/OPG hierarchy, which may overcome some limitations of existing Spatial Access Methods (SAMs). ...

Keywords: dynamic and hierarchical structure, grid file, integer searching algorithm, spatial access method

14 H-BLOB: a hierarchical visual clustering method using implicit surfaces T. C. Sprenger, R. Brunella, M. H. Gross October 2000 Proceedings of the conference on Visualization '00 VIS '00

Publisher: IEEE Computer Society Press

Full text available: pdf(2.17 MB)

Additional Information: full citation, citings, index terms

Keywords: catergorization, cluster visualization, clustering, information visualization, multidimensional information visualization, non-linear dimensionality reduction,

partitioning, physics-based graph layout

15 Retrieval operations and data representations in a context-addressed disc system



Stanley Y. W. Su, George P. Copeland, G. Jack Lipovski

November 1973 ACM SIGIR Forum, ACM SIGPLAN Notices, Proceedings of the 1973 meeting on Programming languages and information retrieval **SIGPLAN '73**, Volume 9, 10 Issue 3, 1

Publisher: ACM Press

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings

This paper attempts to demonstrate that simple expansion of the processing capabilities of fixed disc read and write heads can avoid the multilevel mappings from high-level retrieval language to machine language and from user oriented data representation (information structure) to machine oriented data representation (storage structure) which are found necessary in conventional von Neumann computers. The processing capabilities built in the disc read and write heads for each disc track allow inf ...

16 Path delay analysis for hierarchical building block layout system Eiji Tamura, Kimihiro Ogawa, Toshio Nakano

June 1983 Proceedings of the 20th conference on Design automation DAC '83

Publisher: IEEE Press

Additional Information: full citation, abstract, references, citings, index Full text available: R pdf(705.84 KB)

This paper describes a path delay analysis system which employs an accurate signal delay calculation method for MOS LSIs, taking poly resistance into account. The system takes mask patterns generated by a hierarchical building block layout system as inputs, and verifies timing margins of a large scale random logic LSI in a module-wise bottom up fashion. Path delay analysis using a critical path trace algorithm and an enumerative path trace algorithm in combination is effective in locating c ...

17 Energy-performance trade-offs for spatial access methods on memory-resident data Ning An, Sudhanva Gurumurthi, Anand Sivasubramaniam, Narayanan Vijaykrishnan, Mahmut Kandemir, Mary Jane Irwin



November 2002 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 11 Issue 3

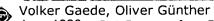
Publisher: Springer-Verlag New York, Inc.

Full text available: 常 pdf(641.55 KB) Additional Information: full citation, abstract, citings, index terms

The proliferation of mobile and pervasive computing devices has brought energy constraints into the limelight. Energy-conscious design is important at all levels of system architecture, and the software has a key role to play in conserving battery energy on these devices. With the increasing popularity of spatial database applications, and their anticipated deployment on mobile devices (such as road atlases and GPS-based applications), it is critical to examine the energy implications of spatial ...

Keywords: Energy optimization, Multidimensional indexing, Resource-constrained computing, Spatial data

18 Multidimensional access methods



June 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.05 MB)

terms

Search operations in databases require special support at the physical level. This is true for conventional databases as well as spatial databases, where typical search operations include the point query (find all objects that contain a given search point) and the region ` query (find all objects that overlap a given search region). More than ten years of spatial database research have resulted in a great variety of multidimensional access methods to support ...

Keywords: data structures, multidimensional access methods

19 Articles on microarray data mining: Towards interactive exploration of gene



expression patterns

Daxin Jiang, Jian Pei, Aidong Zhang

December 2003 ACM SIGKDD Explorations Newsletter, Volume 5 Issue 2

Publisher: ACM Press

Full text available: R pdf(527.68 KB) Additional Information: full citation, abstract, references

Analyzing coherent gene expression patterns is an important task in bioinformatics research and biomedical applications. Recently, various clustering methods have been adapted or proposed to identify clusters of co-expressed genes and recognize coherent expression patterns as the centroids of the clusters. However, the interpretation of coexpressed genes and coherent patterns mainly depends on the domain knowledge, which presents several challenges for coherent pattern mining and cannot be solv....

20 A survey of structured and object-oriented software specification methods and





techniques Roel Wieringa

December 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index

terms, review

This article surveys techniques used in structured and object-oriented software specification methods. The techniques are classified as techniques for the specification of external interaction and internal decomposition. The external specification techniques are further subdivided into techniques for the specification of functions, behavior, and communication. After surveying the techniques, we summarize the way they are used in structured and object-oriented methods and indicate ways in w ...

Keywords: languages

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problem. In view of the logarithmic lower bounds and the optimality ...

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A tree architecture with hierarchical data processing on a sensor-rich hexapod robot.

Authors: Minati, Ludovico; Zorat, Alessandro ...

www.ingentaconnect.com/content/vsp/arb/2002/00000016/00000007/art00002 -

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